

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT  
COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



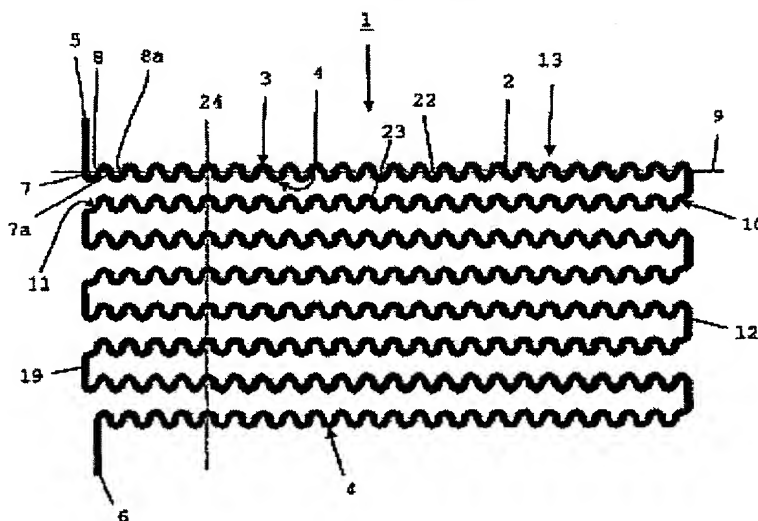
(43) International Publication Date  
August 12, 2004 (08/17/2004)

(10) International Publication Number  
PCT WO 2004/068101 A2

- (51) International Patent Classification<sup>7</sup>: G01N GLAMPE, Oliver [DE/DE]; Balauerföhr 3, 23552 Lübeck (DE).
- (21) International Application Number: PCT/DE2004/000089
- (22) International Application Date: January 22, 2004 (01/22/2004)
- (25) Application Language: German
- (26) Publication Language: German
- (30) Priority Data: 103 03 107.3 January 27, 2003 (01/27/2003) DE
- (71) Applicant (for all designated states with the exception of the US): SLS MICRO TECHNOLOGY GMBH [DE/DE], Tempowerkring 17, 21079 Hamburg (DE).
- (72) Applicant and
- (75) Inventor/Applicant (only for the US): LEHMANN, Uwe [DE/DE]; Wildenbruchstrasse 5, 22587 Hamburg (DE).
- (74) Attorney: POHL, Manfred; Kirchenhang 32 B, 21073 Hamburg (DE).
- (81) Designated states (if not otherwise specified, for any available type of national protective right): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (if not otherwise specified, for any available type of national protective right): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM,

[Continued on the next page]

(54) Title: SEPARATING COLUMN, ESPECIALLY FOR A MINIATURIZED GAS CHROMATOGRAPH



(57) Abstract: The invention relates to a separating column, especially for a miniaturised gas chromatograph, in addition to a micro-chromatograph provided with one or more inventive separating column. The inventive separating column prevents the known racetrack effect and can therefore be produced in a simple and economical manner. The separating column (1) comprises a channel (2) for a flow of fluid having analyte molecules. The flow of fluid comprises counter flowing curves (3, 4) with turning points (7, 8), the average diameter of the channel (2) is greater than the length of the path traversed by an analyte molecule when diffused between two turning points (7, 7a; 8, 8a).

WO 2004/068101 A2 [bar code]

[continued on following page]

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU,

For the explanation of the two-letter codes and the

WO 2004/068101 A2